

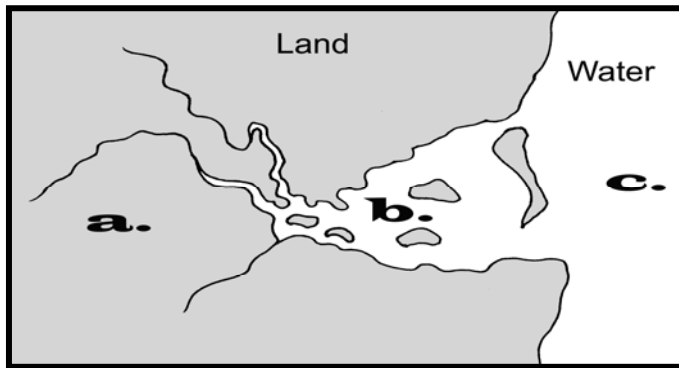
## Padilla Bay Student Worksheet

Name \_\_\_\_\_

### 1. What is an estuary?

- a. The land area that drains water into a lake, river, or pond.
- b. The area where a river meets the ocean, where fresh and salt water mix.
- c. The large body of salt water that covers most of the earth's surface.
- d. The underground system that provides drinking water to an area.

2. Which letter marks the estuary on the diagram? \_\_\_\_\_



3. Where is Padilla Bay Located? \_\_\_\_\_

4. List 3 animals that live in the Padilla Bay estuary.

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5. List the 6 steps of the Scientific Method.

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**6. Name one thing people can do to keep fecal coliform bacteria out of the estuary.**

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**7. Circle all that are correct:**

Fecal coliform can come from . . .

- Too many cars on the road.
- Warm-blooded animals.
- Leaking septic tanks.
- Dead, rotting plants in the water.
- Litter such as cans and plastic bottles.

**8. Are Harbor Seals a source of fecal coliform bacteria in the water?**\_\_\_\_\_

**After testing two water samples for fecal coliform, a student noticed that there were more fecal coliform in the sample taken from close to shore than the sample taken from far off shore. She Asked, “What is causing the close-shore water to have more fecal coliform?”**

**9. Write a hypothesis that addresses this question.**

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**10. Describe an experiment that will test your hypothesis.**

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